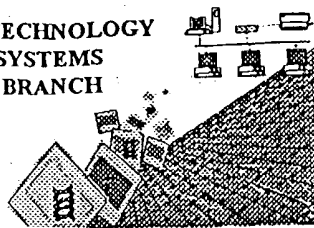


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/086,748  
Source: 1FW/b  
Date Processed by STIC: 11/10/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER~~  
**VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/086,748</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW16

## RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

3 <110> APPLICANT: Wolber, Paul  
 5 <120> TITLE OF INVENTION: Calibration of Molecular Array Data  
 7 <130> FILE REFERENCE: 10020405-1  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/086,748  
 C--> 9 <141> CURRENT FILING DATE: 2002-02-28  
 9 <160> NUMBER OF SEQ ID NOS: 29  
 11 <170> SOFTWARE: PatentIn version 3.3  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 20  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: artificial sequence; *delete*  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: artificial sequence  
 21 <400> SEQUENCE: 1  
 22 aaaaaaaaaa aaaaaatctc  
 25 <210> SEQ ID NO: 2  
 26 <211> LENGTH: 21  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: artificial sequence;  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: artificial sequence  
 33 <400> SEQUENCE: 2  
 34 aaaaaaaaaa aaaaaatctc c  
 37 <210> SEQ ID NO: 3  
 38 <211> LENGTH: 22  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: artificial sequence;  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: artificial sequence  
 45 <400> SEQUENCE: 3  
 46 aaaaaaaaaa aaaaaatctc cc  
 49 <210> SEQ ID NO: 4  
 50 <211> LENGTH: 23  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: artificial sequence;  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: artificial sequence  
 57 <400> SEQUENCE: 4  
 58 aaaaaaaaaa aaaaaatctc cca  
 61 <210> SEQ ID NO: 5  
 62 <211> LENGTH: 23  
 63 <212> TYPE: DNA  
 64 <213> ORGANISM: artificial sequence;

pp 1-7  
 Does Not Comply  
 Corrected Diskette Needed

insufficient explanation - give  
 source of genetic material (see item 11  
 on Error  
 summary  
 sheet)

same error

21

22

23

## RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

66 <220> FEATURE:  
67 <223> OTHER INFORMATION: artificial sequence  
69 <400> SEQUENCE: 5  
70 aaaaaaaaaa aaaaaaatc tcc 23  
73 <210> SEQ ID NO: 6  
74 <211> LENGTH: 24  
75 <212> TYPE: DNA  
76 <213> ORGANISM: artificial sequence  
78 <220> FEATURE:  
79 <223> OTHER INFORMATION: artificial sequence  
81 <400> SEQUENCE: 6  
82 aaaaaaaaaa aaaaaatctc ccaa 24  
85 <210> SEQ ID NO: 7  
86 <211> LENGTH: 24  
87 <212> TYPE: DNA  
88 <213> ORGANISM: artificial sequence  
90 <220> FEATURE:  
91 <223> OTHER INFORMATION: artificial sequence  
93 <400> SEQUENCE: 7  
94 aaaaaaaaaa aaaaaaatc tccc 24  
97 <210> SEQ ID NO: 8  
98 <211> LENGTH: 25  
99 <212> TYPE: DNA  
100 <213> ORGANISM: artificial sequence  
102 <220> FEATURE:  
103 <223> OTHER INFORMATION: artificial sequence  
105 <400> SEQUENCE: 8  
106 aaaaaaaaaa aaaaaatctc ccaa 25  
109 <210> SEQ ID NO: 9  
110 <211> LENGTH: 25  
111 <212> TYPE: DNA  
112 <213> ORGANISM: artificial sequence  
114 <220> FEATURE:  
115 <223> OTHER INFORMATION: artificial sequence  
117 <400> SEQUENCE: 9  
118 aaaaaaaaaa aaaaaaatc tccca 25  
121 <210> SEQ ID NO: 10  
122 <211> LENGTH: 26  
123 <212> TYPE: DNA  
124 <213> ORGANISM: artificial sequence  
126 <220> FEATURE:  
127 <223> OTHER INFORMATION: artificial sequence  
129 <400> SEQUENCE: 10  
130 aaaaaaaaaa aaaaaatctc caaaa 26  
133 <210> SEQ ID NO: 11  
134 <211> LENGTH: 26  
135 <212> TYPE: DNA  
136 <213> ORGANISM: artificial sequence  
138 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

139 <223> OTHER INFORMATION: artificial sequence  
141 <400> SEQUENCE: 11  
142 aaaaaaaaaa aaaaaaatc tcccaa 26  
145 <210> SEQ ID NO: 12  
146 <211> LENGTH: 27  
147 <212> TYPE: DNA  
148 <213> ORGANISM: artificial sequence  
150 <220> FEATURE:  
151 <223> OTHER INFORMATION: artificial sequence  
153 <400> SEQUENCE: 12  
154 aaaaaaaaaa aaaaaaatc tcccaa 27  
157 <210> SEQ ID NO: 13  
158 <211> LENGTH: 27  
159 <212> TYPE: DNA  
160 <213> ORGANISM: artificial sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: artificial sequence  
165 <400> SEQUENCE: 13  
166 aaaaaaaaaa aaaaaatctc ccaaaaa 27  
169 <210> SEQ ID NO: 14  
170 <211> LENGTH: 28  
171 <212> TYPE: DNA  
172 <213> ORGANISM: artificial sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: artificial sequence  
177 <400> SEQUENCE: 14  
178 aaaaaaaaaa aaaaaaatc tccaaaa 28  
181 <210> SEQ ID NO: 15  
182 <211> LENGTH: 28  
183 <212> TYPE: DNA  
184 <213> ORGANISM: artificial sequence  
186 <220> FEATURE:  
187 <223> OTHER INFORMATION: artificial sequence  
189 <400> SEQUENCE: 15  
190 aaaaaaaaaa aaaaaaatc tccaaaa 28  
193 <210> SEQ ID NO: 16  
194 <211> LENGTH: 28  
195 <212> TYPE: DNA  
196 <213> ORGANISM: artificial sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: artificial sequence  
201 <400> SEQUENCE: 16  
202 aaaaaaaaaa aaaaaatctc ccaaaaa 28  
205 <210> SEQ ID NO: 17  
206 <211> LENGTH: 29  
207 <212> TYPE: DNA  
208 <213> ORGANISM: artificial sequence  
210 <220> FEATURE:  
211 <223> OTHER INFORMATION: artificial sequence

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004  
TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt  
Output Set: N:\CRF4\11102004\J086748.raw

213 <400> SEQUENCE: 17  
214 aaaaaaaaaa aaaaaaatc tccccaaaaa 29  
217 <210> SEQ ID NO: 18  
218 <211> LENGTH: 29  
219 <212> TYPE: DNA  
220 <213> ORGANISM: artificial sequence  
222 <220> FEATURE:  
223 <223> OTHER INFORMATION: artificial sequence  
225 <400> SEQUENCE: 18  
226 aaaaaaaaaa aaaaaaatc ccaaaaaaa 29  
229 <210> SEQ ID NO: 19  
230 <211> LENGTH: 30  
231 <212> TYPE: DNA  
232 <213> ORGANISM: artificial sequence  
234 <220> FEATURE:  
235 <223> OTHER INFORMATION: artificial sequence  
237 <400> SEQUENCE: 19  
238 aaaaaaaaaa aaaaaaatc tccccaaaaa 30  
241 <210> SEQ ID NO: 20  
242 <211> LENGTH: 30  
243 <212> TYPE: DNA  
244 <213> ORGANISM: artificial sequence  
246 <220> FEATURE:  
247 <223> OTHER INFORMATION: artificial sequence  
249 <400> SEQUENCE: 20  
250 aaaaaaaaaa aaaaaaatc ccaaaaaaa 30  
253 <210> SEQ ID NO: 21  
254 <211> LENGTH: 31  
255 <212> TYPE: DNA  
C--> 256 <213> ORGANISM: artificial sequence  
W--> 258 <220> FEATURE:  
W--> 258 <223> OTHER INFORMATION:  
W--> 258 <400> 21  
259 aaaaaaaaaa aaaaaaatc tccccaaaaa a 31  
262 <210> SEQ ID NO: 22  
263 <211> LENGTH: 31  
264 <212> TYPE: DNA  
265 <213> ORGANISM: artificial sequence  
267 <220> FEATURE:  
268 <223> OTHER INFORMATION: artificial sequence  
270 <400> SEQUENCE: 22  
271 aaaaaaaaaa aaaaaaatc ccaaaaaaa a 31  
274 <210> SEQ ID NO: 23  
275 <211> LENGTH: 32  
276 <212> TYPE: DNA  
277 <213> ORGANISM: artificial sequence  
279 <220> FEATURE:  
280 <223> OTHER INFORMATION: artificial sequence  
282 <400> SEQUENCE: 23

Artificial Sequence

mandatory numeric identifier  
needed. see p. 6

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004  
TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt  
Output Set: N:\CRF4\11102004\J086748.raw

```

283 aaaaaaaaaa aaaaaaatc tccccaaaaa aa 32
286 <210> SEQ ID NO: 24
287 <211> LENGTH: 32
288 <212> TYPE: DNA
289 <213> ORGANISM: artificial sequence;
291 <220> FEATURE:
292 <223> OTHER INFORMATION: artificial sequence
294 <400> SEQUENCE: 24
295 aaaaaaaaaa aaaaaaatc ccaaaaaaaaa aa 32
298 <210> SEQ ID NO: 25
299 <211> LENGTH: 33
300 <212> TYPE: DNA
301 <213> ORGANISM: artificial sequence;
303 <220> FEATURE:
304 <223> OTHER INFORMATION: artificial sequence
306 <400> SEQUENCE: 25
307 aaaaaaaaaa aaaaaaatc tccccaaaaa aaa 33
310 <210> SEQ ID NO: 26
311 <211> LENGTH: 33
312 <212> TYPE: DNA
313 <213> ORGANISM: artificial sequence;
315 <220> FEATURE:
316 <223> OTHER INFORMATION: artificial sequence
318 <400> SEQUENCE: 26
319 aaaaaaaaaa aaaaaaatc ccaaaaaaaaa aaa 33
322 <210> SEQ ID NO: 27
323 <211> LENGTH: 34
324 <212> TYPE: DNA
325 <213> ORGANISM: artificial sequence;
327 <220> FEATURE:
328 <223> OTHER INFORMATION: artificial sequence
330 <400> SEQUENCE: 27
331 aaaaaaaaaa aaaaaaatc tccccaaaaa aaaa 34
334 <210> SEQ ID NO: 28
335 <211> LENGTH: 35
336 <212> TYPE: DNA
337 <213> ORGANISM: artificial sequence;
339 <220> FEATURE:
340 <223> OTHER INFORMATION: artificial sequence
342 <400> SEQUENCE: 28
343 aaaaaaaaaa aaaaaaatc tccccaaaaa aaaaa 35
346 <210> SEQ ID NO: 29
347 <211> LENGTH: 60
348 <212> TYPE: DNA
349 <213> ORGANISM: artificial sequence;
351 <220> FEATURE:
352 <223> OTHER INFORMATION: artificial sequence
354 <400> SEQUENCE: 29
355 ttgattcttt tttataaac tactctttga tttaaaaaa aaaaaaaaaa aaaaaaaaaa 60

```

10/086,748 6

<210> SEQ ID NO 21

<211> LENGTH: 31

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 21

aaaaaaaaaa aaaaaaaatc tccccaaaaa a

*see p. 7 for explanation*

31



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004  
TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt  
Output Set: N:\CRF4\11102004\J086748.raw

*no explanation*

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

Seq#: 21

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:256 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
L:258 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:21, <213>  
ORGANISM:Artificial Sequence  
L:258 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213>  
ORGANISM:Artificial Sequence  
L:258 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:258